

0590

10/2

OIE

#2

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/865,159

DATE: 11/19/2001

TIME: 07:59:59

Input Set : N:\Crf3\RULE60\09865159.raw

Output Set: N:\CRF3\11192001\I865159.raw

1 <110> APPLICANT: Irvin, Randall T.  
 2 Hodges, Robert S.  
 3 <120> TITLE OF INVENTION: PSEUDOMONAS TREATMENT  
 4 COMPOSITION AND METHOD  
 5 <130> FILE REFERENCE: 8900-0008.30  
 C--> 6 <140> CURRENT APPLICATION NUMBER: US/09/865,159  
 7 <141> CURRENT FILING DATE: 2001-05-24  
 8 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/329,884  
 W--> 9 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1999-06-11  
 10 <160> NUMBER OF SEQ ID NOS: 22  
 11 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 387  
 15 <212> TYPE: DNA  
 16 <213> ORGANISM: Pseudomonas aeruginosa  
 17 <220> FEATURE:  
 18 <221> NAME/KEY: CDS  
 W--> 19 <222> LOCATION: (0)...(0)  
 20 <400> SEQUENCE: 1  
 21 ggcgtcgcagg gtaccgaatt cgcacgcgct cagcttagcg aacgcgatgac cctggccagt 60  
 22 ggtctcaaga cgaaagtgcg cgatatcttc tctcaggatg ggtcctgccc ggctaatact 120  
 23 gctgccacgg caggcatcga gaaagatacc gacatcaacg gcaagtatgt tgccaaggta 180  
 24 acaactgggtg gcaccgcagc tgcgtctggt gggtgcacta tcgttgctac tatgaaagcc 240  
 25 tctgatgtgg ctactcctct gagggggaaa actctgactt tgactctagg aaatgctgac 300  
 26 aagggttctt acacttgggc ctgtacttcc aacgcagata acaagtacct gccaaaaacc 360  
 27 tgccagactg ctaccactac cactccg 387  
 29 <210> SEQ ID NO: 2  
 30 <211> LENGTH: 129  
 31 <212> TYPE: PRT  
 32 <213> ORGANISM: Pseudomonas aeruginosa  
 33 <400> SEQUENCE: 2  
 34 Ala Leu Glu Gly Thr Glu Phe Ala Arg Ala Gln Leu Ser Glu Arg Met  
 35 1 5 10 15  
 36 Thr Leu Ala Ser Gly Leu Lys Thr Lys Val Ser Asp Ile Phe Ser Gln  
 37 20 25 30  
 38 Asp Gly Ser Cys Pro Ala Asn Thr Ala Ala Thr Ala Gly Ile Glu Lys  
 39 35 40 45  
 40 Asp Thr Asp Ile Asn Gly Lys Tyr Val Ala Lys Val Thr Thr Gly Gly  
 41 50 55 60  
 42 Thr Ala Ala Ala Ser Gly Gly Cys Thr Ile Val Ala Thr Met Lys Ala  
 43 65 70 75 80  
 44 Ser Asp Val Ala Thr Pro Leu Arg Gly Lys Thr Leu Thr Leu Thr Leu  
 45 85 90 95  
 46 Gly Asn Ala Asp Lys Gly Ser Tyr Thr Trp Ala Cys Thr Ser Asn Ala  
 47 100 105 110  
 48 Asp Asn Lys Tyr Leu Pro Lys Thr Cys Gln Thr Ala Thr Thr Thr  
 49 115 120 125

ENTERED

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Input Set : N:\Crf3\RULE60\09865159.raw

Output Set: N:\CRF3\11192001\I865159.raw

```

50      Pro
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 369
54 <212> TYPE: DNA
55 <213> ORGANISM: Pseudomonas aeruginosa
56 <400> SEQUENCE: 3
57      gcgctcgagg gtaccgaatt cgctcggttcg gaaggcgcat ctgctcttgc ttcgggtcaat      60
58      ccgttgaaga ctaccgttga agaggcgctt tctcgtgggt ggagcgtgaa gagcgggtaca      120
59      ggtacagagg acgctactaa gaaagagggt cctctggggg tggcggcaga tgctaacaaa      180
60      ctgggtacta tcgcactcaa acccgatcct gctgatggta ctgcagatat cactttgact      240
61      ttcactatgg gcggtgcagg accgaagaat aaagggaaaa ttattaccct gactcgtact      300
62      gcagctgatg gtctctggaa gtgcaccagt gatcaggatg agcagtttat tccgaaagg      360
63      tgctctagg
65 <210> SEQ ID NO: 4
66 <211> LENGTH: 123
67 <212> TYPE: PRT
68 <213> ORGANISM: Pseudomonas aeruginosa
69 <400> SEQUENCE: 4
70      Ala Leu Glu Gly Thr Glu Phe Ala Arg Ser Glu Gly Ala Ser Ala Leu
71      1          5          10          15
72      Ala Ser Val Asn Pro Leu Lys Thr Thr Val Glu Glu Ala Leu Ser Arg
73      20          25          30
74      Gly Trp Ser Val Lys Ser Gly Thr Gly Thr Glu Asp Ala Thr Lys Lys
75      35          40          45
76      Glu Val Pro Leu Gly Val Ala Ala Asp Ala Asn Lys Leu Gly Thr Ile
77      50          55          60
78      Ala Leu Lys Pro Asp Pro Ala Asp Gly Thr Ala Asp Ile Thr Leu Thr
79      65          70          75          80
80      Phe Thr Met Gly Gly Ala Gly Pro Lys Asn Lys Gly Lys Ile Ile Thr
81      85          90          95
82      Leu Thr Arg Thr Ala Ala Asp Gly Leu Trp Lys Cys Thr Ser Asp Gln
83      100         105         110
84      Asp Glu Gln Phe Ile Pro Lys Gly Cys Ser Arg
85      115         120
87 <210> SEQ ID NO: 5
88 <211> LENGTH: 366
89 <212> TYPE: DNA
90 <213> ORGANISM: Pseudomonas aeruginosa
91 <220> FEATURE:
92 <221> NAME/KEY: CDS
W--> 93 <222> LOCATION: (0)...(0)
94 <400> SEQUENCE: 5
95      gcgctcgagg gtaccgaatt cgcgcggttcg gaagggtgctt cggcgctggc gacgatcaac      60
96      ccgctgaaga ccactgttga agagtcgctg tcgctgtggaa ttgctggtag caaaattaaa      120
97      attggtacta ctgcttctac tgcgaccgaa acatatgccg gcgtcgagcc ggatgccaac      180
98      aagttgggtg taattgctgt agcaatcgaa gatagtgggt cgggtgatat tacctttacc      240
99      ttccagactg gtacctctag tccaagaat gctactaaag ttatcactct gaaccgtact      300
100     gcggatgggg tctgggcttg taaatctacc caggatccga tgttcactcc gaaaggttct      360
101     gataac

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TIME: 07:59:59

Input Set : N:\Crf3\RULE60\09865159.raw

Output Set: N:\CRF3\11192001\I865159.raw

```

103 <210> SEQ ID NO: 6
104 <211> LENGTH: 122
105 <212> TYPE: PRT
106 <213> ORGANISM: Pseudomonas aeruginosa
107 <400> SEQUENCE: 6
108   Ala Leu Glu Gly Thr Glu Phe Ala Arg Ser Glu Gly Ala Ser Ala Leu
109       1             5             10             15
110   Ala Thr Ile Asn Pro Leu Lys Thr Thr Val Glu Glu Ser Leu Ser Arg
111               20             25             30
112   Gly Ile Ala Gly Ser Lys Ile Lys Ile Gly Thr Thr Ala Ser Thr Ala
113           35             40             45
114   Thr Glu Thr Tyr Ala Gly Val Glu Pro Asp Ala Asn Lys Leu Gly Val
115       50             55             60
116   Ile Ala Val Ala Ile Glu Asp Ser Gly Ala Gly Asp Ile Thr Phe Thr
117       65             70             75             80
118   Phe Gln Thr Gly Thr Ser Ser Pro Lys Asn Ala Thr Lys Val Ile Thr
119               85             90             95
120   Leu Asn Arg Thr Ala Asp Gly Val Trp Ala Cys Lys Ser Thr Gln Asp
121               100            105            110
122   Pro Met Phe Thr Pro Lys Gly Ser Asp Asn
123       115            120

```

```

125 <210> SEQ ID NO: 7
126 <211> LENGTH: 381
127 <212> TYPE: DNA
128 <213> ORGANISM: Pseudomonas aeruginosa
129 <220> FEATURE:
130 <221> NAME/KEY: CDS

```

W--&gt; 131 &lt;222&gt; LOCATION: (0)...(0)

```

132 <400> SEQUENCE: 7
133   gcgctcgagg gtaccgaatt cgcccgtagc caggtgaccc gtgccgtgag tgaagtcagc      60
134   gcgctgaaga ccgctgcgga gtcggcgatt ctggaaggga aggagattgt ttccagcgcg      120
135   actcctaaag atacccagta tgacattggc ttaccagagt ctactttgct agatggttct      180
136   ggtaagagtc agatccaggt aacggacaat aaagatggca ccgttgagtt ggtcgctacc      240
137   ttgggtaaat cttctggttc cgccatcaaa ggggctgtaa tcaactgtttc gcgtaaaaat      300
138   gacggagtct ggaactgcaa aatcaccaaa actcctacag cttggaagcc caactacgct      360
139   ccggctaatt gccgaattc c                                     381

```

```

141 <210> SEQ ID NO: 8
142 <211> LENGTH: 127
143 <212> TYPE: PRT
144 <213> ORGANISM: Pseudomonas aeruginosa
145 <400> SEQUENCE: 8
146   Ala Leu Glu Gly Thr Glu Phe Ala Arg Thr Gln Val Thr Arg Ala Val
147       1             5             10             15
148   Ser Glu Val Ser Ala Leu Lys Thr Ala Ala Glu Ser Ala Ile Leu Glu
149               20             25             30
150   Gly Lys Glu Ile Val Ser Ser Ala Thr Pro Lys Asp Thr Gln Tyr Asp
151           35             40             45
152   Ile Gly Phe Thr Glu Ser Thr Leu Leu Asp Gly Ser Gly Lys Ser Gln
153       50             55             60

```

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TIME: 07:59:59

Input Set : N:\Crf3\RULE60\09865159.raw

Output Set: N:\CRF3\11192001\I865159.raw

```

154   Ile Gln Val Thr Asp Asn Lys Asp Gly Thr Val Glu Leu Val Ala Thr
155   65                               70                               75                               80
156   Leu Gly Lys Ser Ser Gly Ser Ala Ile Lys Gly Ala Val Ile Thr Val
157                               85                               90                               95
158   Ser Arg Lys Asn Asp Gly Val Trp Asn Cys Lys Ile Thr Lys Thr Pro
159                               100                              105                              110
160   Thr Ala Trp Lys Pro Asn Tyr Ala Pro Ala Asn Cys Pro Asn Ser
161                               115                              120                              125
163 <210> SEQ ID NO: 9
164 <211> LENGTH: 381
165 <212> TYPE: DNA
166 <213> ORGANISM: Pseudomonas aeruginosa
167 <220> FEATURE:
168 <221> NAME/KEY: CDS
W--> 169 <222> LOCATION: (0)...(0)
170 <400> SEQUENCE: 9
171   gcgctcgagg gtaccgaatt ctctcgctct caggtctcca gggttatggc ggaggctggc      60
172   tccttgaaga ctgcagttga ggccctgcctc caggatggtc gtactgctgt gggtagctgt      120
173   gctggtcaat gcgatccggg tgcgacgggt tccagtttgt tgactgggtgc ttctcagact      180
174   tctcaaaccg tgccaaccaa taccggtgtt ccgcagggtc tggatcctct gactactcaa      240
175   accactatca ttgcgacttt tggtaacggc gcatccgcag ctatttcttg ccagactctg      300
176   acctggactc gtgatgttaa tgggtggctgg agctgtgcta ctaccgtaga tgctaaattc      360
177   cgtcctaata gctgtactga c.                                         381
179 <210> SEQ ID NO: 10
180 <211> LENGTH: 127
181 <212> TYPE: PRT
182 <213> ORGANISM: Pseudomonas aeruginosa
183 <400> SEQUENCE: 10
184   Ala Leu Glu Gly Thr Glu Phe Ser Arg Ser Gln Val Ser Arg Val Met
185   1                               5                               10                               15
186   Ala Glu Ala Gly Ser Leu Lys Thr Ala Val Glu Ala Cys Leu Gln Asp
187   20                              25                              30
188   Gly Arg Thr Ala Val Gly Thr Ala Ala Gly Gln Cys Asp Pro Gly Ala
189   35                              40                              45
190   Thr Gly Ser Ser Leu Leu Thr Gly Ala Ser Gln Thr Ser Gln Thr Leu
191   50                              55                              60
192   Pro Thr Asn Thr Gly Val Pro Gln Val Leu Asp Pro Leu Thr Thr Gln
193   65                              70                              75                              80
194   Thr Thr Ile Ile Ala Thr Phe Gly Asn Gly Ala Ser Ala Ala Ile Ser
195   85                              90                              95
196   Gly Gln Thr Leu Thr Trp Thr Arg Asp Val Asn Gly Gly Trp Ser Cys
197   100                             105                             110
198   Ala Thr Thr Val Asp Ala Lys Phe Arg Pro Asn Gly Cys Thr Asp
199   115                             120                             125
201 <210> SEQ ID NO: 11
202 <211> LENGTH: 507
203 <212> TYPE: DNA
204 <213> ORGANISM: Pseudomonas aeruginosa
205 <220> FEATURE:

```

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TIME: 07:59:59

Input Set : N:\Crf3\RULE60\09865159.raw

Output Set: N:\CRF3\11192001\I865159.raw

```

206 <221> NAME/KEY: CDS
W--> 207 <222> LOCATION: (0)...(0)
208 <400> SEQUENCE: 11
209      gcgctcgagc accatcatca ccatgggtggt ggtggcgaga ttgaggccct caaggctgaa      60
210      atcgaagccc taaaggccga gatagaagca cttaaggcag agatcgaggc gctaaaagcg      120
211      gaaatagagg ctctgaaggc aggcggtgga ggagaattcg ctcgttcgga aggcgcacat      180
212      gctcttgctt cgggtcaatcc gttgaagact accgttgaag aggcgctttc tcgtggttgg      240
213      agcgtgaaga gcggtacagg tacagaggac gctactaaga aagaggttcc tctgggggtg      300
214      gcggcagatg ctaacaaact ggggtactatc gcactcaaac ccgacccctgc tgatggtact      360
215      gcagatatca ctttgacttt cactatgggc ggtgcaggac cgaagaataa agggaaaatt      420
216      attaccctga ctcgactgc agctgatggt ctctggaagt gcaccagtga tcaggatgag      480
217      cagtttattc cgaaagggtg ctctagg      507
219 <210> SEQ ID NO: 12
220 <211> LENGTH: 169
221 <212> TYPE: PRT
222 <213> ORGANISM: Pseudomonas aeruginosa
223 <400> SEQUENCE: 12
224      Ala Leu Glu His His His His His Gly Gly Gly Gly Glu Ile Glu Ala
225      1          5          10          15
226      Leu Lys Ala Glu Ile Glu Ala Leu Lys Ala Glu Ile Glu Ala Leu Lys
227      20          25          30
228      Ala Glu Ile Glu Ala Leu Lys Ala Glu Ile Glu Ala Leu Lys Ala Gly
229      35          40          45
230      Gly Gly Gly Glu Phe Ala Arg Ser Glu Gly Ala Ser Ala Leu Ala Ser
231      50          55          60
232      Val Asn Pro Leu Lys Thr Thr Val Glu Glu Ala Leu Ser Arg Gly Trp
233      65          70          75          80
234      Ser Val Lys Ser Gly Thr Gly Thr Glu Asp Ala Thr Lys Lys Glu Val
235      85          90          95
236      Pro Leu Gly Val Ala Ala Asp Ala Asn Lys Leu Gly Thr Ile Ala Leu
237      100         105         110
238      Lys Pro Asp Pro Ala Asp Gly Thr Ala Asp Ile Thr Leu Thr Phe Thr
239      115         120         125
240      Met Gly Gly Ala Gly Pro Lys Asn Lys Gly Lys Ile Ile Thr Leu Thr
241      130         135         140
242      Arg Thr Ala Ala Asp Gly Leu Trp Lys Cys Thr Ser Asp Gln Asp Glu
243      145         150         155         160
244      Gln Phe Ile Pro Lys Gly Cys Ser Arg
245      165
247 <210> SEQ ID NO: 13
248 <211> LENGTH: 507
249 <212> TYPE: DNA
250 <213> ORGANISM: Pseudomonas aeruginosa
251 <220> FEATURE:
252 <221> NAME/KEY: CDS
W--> 253 <222> LOCATION: (0)...(0)
254 <400> SEQUENCE: 13
255      gcgctcgagc accatcatca ccatgggtggt ggtggcgagg tatccgcttt agagaaagaa      60
256      gtttctgctc tcgaaaaaga ggtcagtgct ctggaaaaag aggtgtcagc cttggaaaag      120

```

## VERIFICATION SUMMARY

DATE: 11/19/2001

PATENT APPLICATION: US/09/865,159

TIME: 08:00:00

Input Set : N:\Crf3\RULE60\09865159.raw

Output Set: N:\CRF3\11192001\I865159.raw

L:6 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:9 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:19 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:1, CDS LOCATION: (0)...(0)  
L:93 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:5, CDS LOCATION: (0)...(0)  
L:131 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:7, CDS LOCATION: (0)...(0)  
L:169 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:9, CDS LOCATION: (0)...(0)  
L:207 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:11, CDS LOCATION: (0)...  
(0)  
L:253 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:13, CDS LOCATION: (0)...  
(0)  
L:299 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:15, CDS LOCATION: (0)...  
(0)  
L:345 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:17, CDS LOCATION: (0)...  
(0)  
L:391 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:19, CDS LOCATION: (0)...  
(0)  
L:437 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:21, CDS LOCATION: (0)...  
(0)